

*AMENDMENT*In the Claims:

Please amend the claims as follows:

- B1*
1. (Amended) A system for remotely monitoring patient variables, comprising:
- at least one patient-worn sensor;
  - a patient-worn monitoring unit connected to the sensor;
  - said patient-worn monitoring unit comprising a data acquisition means for receiving information from said at least one sensor, logic means for processing the information, and a wireless communication device connected to a first wireless network, wherein said first wireless network is adapted to transmit information over the Internet;
  - a data archiving and distribution means connected to the Internet to communicate with a plurality of patient-worn monitoring units and store transmitted information;
  - a second network connected to the Internet and first wireless network;
  - a plurality of medical care provider terminal means connected to the second network for communication of information in a bi-directional manner between each patient's medical care provider and an associated patient-worn monitoring unit over said second and first networks and for remotely accessing associated patient information from said data archiving and distribution means over the Internet.

- B2*
12. (Amended) A method for remotely monitoring patient variables, comprising:
- attaching at least one patient-worn sensor to a patient;
  - providing a patient-worn monitoring unit connected to the sensor, wherein said patient-worn monitoring unit acquires information from the at least one sensor, analyzes the information and transmits information over a first wireless network;
  - said patient-worn monitoring unit sending and receiving information over the Internet via said first wireless network;
  - an Internet-connected server archiving and distributing information from a plurality of patient-worn monitoring units;
  - connecting a second network to the Internet and said first wireless network;
  - connecting a plurality of medical care provider terminals to the second network;

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4

Atty. Dckt. 2612-001CIP

B2 communicating with said terminals in a bi-directional manner between each patient's medical care provider and the patient's patient-worn monitoring unit over said second and first networks; and

said medical care providers remotely accessing archived information over the Internet via said terminals.

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April 17, 2003

5

Atty. Dckt. 2612-001CIP